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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,247	12/27/2001	Nobuji Suzuki	NIS-12830	9442
7609	7590 03/12/2004		EXAMINER	
RANKIN, HILL, PORTER & CLARK, LLP			ELKASSABGI, HEBA	
	D AVENUE, SUITE 700 ID, OH 44115-1405		ART UNIT	PAPER NUMBER
	, ·		2834	

DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/034,247	SUZUKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Heba Elkassabgi	2834	
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a report. The areply within the statutory minimum of thirty operiod will apply and will expire SIX (6) MONTH statute, cause the application to become ABA	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<u>12/27/2001</u> .		
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.		
3) Since this application is in condition for al	lowance except for formal matter	s, prosecution as to the merits is	
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-9 is/are pending in the applicat	tion.		
4a) Of the above claim(s) is/are wit	hdrawn from consideration.		
5)⊠ Claim(s) <u>5 and 6</u> is/are allowed.		100	
6)⊠ Claim(s) <u>1-3 and 7-9</u> is/are rejected.			
7)⊠ Claim(s) <u>4</u> is/are objected to.			
8) Claim(s) are subject to restriction a	and/or election requirement.	**	
Application Papers		· .	
9) The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a)		the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co	orrection is required if the drawing(s	is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.:	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the certified copies of the priority document of the certified copies of the application from the International But * See the attached detailed Office action for a certified copies of the application from the International But * See the attached detailed Office action for a certified copies of the application from the International But * See the attached detailed Office action for a certified copies of the priority document of the priority doc	ments have been received. ments have been received in Appendin priority documents have been received (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
Attachment(s)			
1) Divotice of References Cited (PTO-892)		nmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		Mail Date rmal Patent Application (PTO-152) .	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 3 and 7 -9 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirohiko et al. (J.P. Patent 10-128692).

Hirohiko et al. discloses in figure #2 a motor two rotational position detecting sensor-equipped motors each including a motor stators (310/610) and a motor rotors (320/620), a revolving shafts (S1/S2) to which a motor rotor (320/620) is coupled, a bearing structure (130/160,230/240) for rotatably supporting a revolving shaft (S1/S2), and a rotational position detecting sensor (4110/7110) for detecting a rotational position of a revolving shaft (S1/S2). The rotational position detecting sensor equipped motors are combined with each other so as to permit revolving shafts (S1/S2) to be concentric with each other. A motor frame (MF) including first and second side walls (140) that are fixed on both sides in an axial direction of a fixing shaft (S1/S2); a first revolving shaft (S1) and a second revolving shaft (S2) positioned between a first side wall and second side wall (SW) and arranged concentrically with a fixing shaft (S1/S2) through a first bearing structure (130/160) and a second bearing structure (230/240). The first and second revolving shafts (S1/S2) are arranged so as to be aligned with each other in the

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axial direction. The first and second rotation frames (140/170) are fixed on a first and second rotation shafts (S1/S2). Respectively; a first rotational position detecting sensor (4110) including a first sensor rotor (42) provided on the first revolving shaft (S1) and first rotation frame and a first sensor stator (310) arranged on a first side wall so as to correspond to a first sensor rotor (40) and functioning to detect a rotational position of a first revolving shaft (S1); a first motor section including a first motor rotor (320) provided on the other of a first revolving shaft (S1) and first rotation frame and a first motor stator (61) provided on first side wall so as to correspond to a first rotor (42) and functioning to apply rotational force to a first revolving shaft (S1); a second rotational position detecting sensor (7110) including a second sensor rotor (70) provided on one a second motor revolving shaft (S2) and rotation frame (170) and a second sensor stator (610) provided on a second side wall so as to correspond to a sensor rotor (70) and functioning to detect a rotational position of a second revolving shaft (S2); a second motor section including a second motor rotor (70) provided on the other of a second revolving shaft (S2) and second rotation frame (170) and a second motor stator (610) provided on a second side wall so as to correspond to a second motor rotor (70) and functioning to apply rotational force to a second revolving shaft (S2); a first bearing structure (130/160), and a first revolving shaft (S1). One of the first rotational position detecting sensor (4110) and first motor section (140), and the other of a first rotational position detecting sensor (4110) and first motor (140) being arranged so as to be aligned with each other outwardly in a radial direction of a fixing shaft (S1), resulting in constituting a first rotational position detecting sensor-equipped motor with a second

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bearing structure (230). The second revolving shaft (S2), one of a second rotational position detecting sensor (7110) and second motor section (170). The second rotational position detecting sensor (7110) and second motor (170) are arranged so as to be aligned with each other outwardly in a radial direction of a fixing shaft (S2), resulting in constituting a second rotational position detecting sensor-equipped motor. A first output plate (34) arranged so as to extend outwardly in a radial direction of first revolving shaft (S1) from a space defined between first rotational position detecting sensor-equipped motor and a second rotational position detecting sensor-equipped motor. A first output plate (34) is fixed on a first revolving shaft (S1) of a first rotational position detecting sensor-equipped motor and a first rotation frame, to thereby be rotated with a first revolving shaft (S1); and a second output plate (64) arranged so as to extend outwardly in a radial direction of a second revolving shaft (S2) from the space. The second output plate (64) is fixed on a second revolving shaft (S2) of a second rotational position detecting sensor-equipped motor and a second rotation frame, to thereby be rotated with a second revolving shaft (S2).

Allowable Subject Matter

Claims 4, 5-6 are allowed.

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: Dependent claim 4 and Independent claim 5 is allowed over the prior art which does not disclose a bearing bushing that is arranged concentrically with one revolving shaft and a fixed motor frame in combination

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (571) 272-2023. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Heba Y. Elkassabgi 🕟

PRIMARY EXAMINER

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